DESCRIPTION

New generation of airborne radios are designed based on the SDR (Software Defined Radio) technology. Benefiting from the technology an appropriate infrastructure is provided for data transmission and establishing data link networks as well as improving technical specifications and stability in comparison with the old radios. GRC-620 as a VHF/UHF airborne ground-based radio is considered for establishing Ground-to-Air communication in air traffic control towers, radar sites, ROC, and … as well as installing inside the Command Posts (CPs).

General specifications	
Frequency range	UHF: 225-399.975 MHz
	VHF: 108-173.975 MHz
Channel spacing	8.33KHz/12.5KHz/25KHz
Power supply	DC power supply: 22-32V
	AC power supply: 220VAC
	(DC and AC power supplies are switched
	Automatically with priority of the AC power
	supply.)
	Transmitting current consumption: maximum
	20A
	Receiving current consumption: maximum 2A
Modulation type	AM:A3E, FM:F3E, ECCM:FSK
Data transmission	16kbps rate in the ECCM mode
Communication between R/T and Remote control unit	RS485
ECCM capability	hopping in the UHF and the whole VHF/UHF
	frequency band
Guard receiver frequencies	Independent guard receiver in 243MHz and
	121.5MHz voice of the guard and main
	receivers are heard simultaneously
Channel Scanning	scan up to four channels
Transmitting specifications	
Output power	AM and FM modes: 20W ± 1dB ECCM mode: 100W peak ± 1dB